

Application No.: 10/804,698
Filed: March 19, 2004
Response dated: March 21, 2007
Response to OA: September 21, 2006

Complete Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application. Please amend the claims as follows:

1. – 12. (Cancelled)

13. (Currently Amended) A method of designing a direct expansion geothermal heat exchange system comprising providing a refrigerant to the direct expansion geothermal heat exchange system with system operational working pressures at least 33% greater than the system operational working pressures of R-22.

14. (Original) The method of claim 13, further comprising providing system components designed to withstand comparably greater system operational working pressures, which will be at least 33% greater than the system operational working pressures of R-22.

15. (Original) The method of claim 13, further comprising providing an R-410A refrigerant.

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16. (Currently Amended) The method of claim 15, further comprising providing a polyol ester lubricating oil for ~~the system's~~ a compressor in the system.

17. (Original) The method of claim 15, further comprising providing a filter dryer that has been oversized by a factor of at least 10% above the size of filter dryer used in an R-22 based system.

18. – 45. (Cancelled)

46. (Currently Amended) A direct expansion geothermal heat exchange system comprising providing a refrigerant to the direct expansion geothermal heat exchange system with system operational working pressures at least 33% greater than the system operational working pressures of R-22.

47. (Original) The system of claim 46, further comprising providing system components designed to withstand comparably greater system operational working pressures, which will be at least 33% greater than the system operational working pressures of R-22.

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48. (Original) The system of claim 46, further comprising providing an R-410A refrigerant.

49. (Original) The system of claim 48, further comprising providing a polyol ester lubricating oil for the system's compressor.

50. (Original) The system of claim 48, further comprising providing a filter dryer that has been oversized by a factor of at least 10% above the size of filter dryer used in an R-22 based system.

51. – 76. (Cancelled)